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## CLAIMS

- 1. A compound characterized in that it is chosen from the compounds capable of binding to hormone receptors and in that it comprises a nitrogen monoxide-donor nitric ester group, with the exception of estradiol substituted in the 11- and/or 17-position with a nitric ester group.
- 2. A compound as claimed in claim 1, characterized in that the hormone receptors are chosen from steroid receptors, retinoid receptors and vitamin D derivative receptors.
- 15 3. A compound as claimed in either one of claims 1 and 2, characterized in that the compound capable of binding to hormone receptors is a natural hormone.
- 4. A compound as claimed in either one of claims 1 20 and 2, characterized in that the compound capable of binding to hormone receptors is a synthetic hormone.
- 5. A compound as claimed in any one of claims 1 to 4, characterized in that the compound capable of binding to hormone receptors is chosen from the group composed of a progestogen hormone, an estrogen, an antimineralocorticoid, an androgen or an anti-androgen or a combination of these hormones.
- 30 6. A compound as claimed in any one of claims 1 to 5, characterized in that the hormone capable of binding to hormone receptors is chosen from the following group: progesterone, 170H-progesterone, estradiol, ethinyl estradiol, aldosterone, spironolactone, drospirenone, testosterone and cyproterone.
  - 7. A compound as claimed in claims 1 to 6, characterized in that it comprises one or more  $NO_2$

groups bonded to the hormone directly via the oxygen atom of the enolic form or by means of a benzyloxy radical.

- 8. A compound as claimed in any one of claims 1 to 7, characterized in that the  $NO_2$  group(s) is (are) bonded directly to the hormone via the oxygen atom of the enolic form of the hormone.
- 9. A compound as claimed in any one of claims 1 to 7, characterized in that the  $NO_2$  group(s) is (are) bonded to the hormone by means of a benzyloxy radical.
- 10. A compound as claimed in claim 9, characterized in that the benzyloxy radical is bonded to the hormone by means of a group that establishes a bridge.
  - 11. A compound as claimed in claim 10, characterized in that the bridge is a C=0 or COO.
- 12. A compound as claimed in any one of claims 1 to 11, characterized in that the hormone capable of binding to hormone receptors is progesterone.
- 25 13. A compound as claimed in any one of claims 1 to 11, characterized in that the hormone capable of binding to hormone receptors is 170H-progesterone.
- 14. A compound as claimed in claim 7, characterized in 30 that it corresponds to the formulae:

5 15. A compound as claimed in any one of claims 1 to 11, characterized in that the hormone capable of

binding to hormone receptors is estradiol.

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16. A compound as claimed in claim 15, characterized in that it is substituted in the 17- and 3-position of the estradiol with an  $NO_2$  group bonded to the oxygen atom of the OH function of the estradiol.

17. A compound as claimed in claim 15, characterized in that it is substituted in the 3-position of the estradiol with an  $NO_2$  group bonded to the oxygen atom of the OH function of the estradiol.

18. A compound as claimed in claim 16 or 17, characterized in that it corresponds to the formulae

- 19. A compound as claimed in any one of claims 1 to 6, characterized in that the hormone capable of binding to hormone receptors is spironolactone.
  - 20. A compound as claimed in claim 19, characterized in that it comprises an  $NO_2$  group bonded by means of a benzyloxy radical.
  - 21. A compound as claimed in claim 20, characterized in that it corresponds to the formula

- 22. A compound as claimed in any one of claims 1 to 21, for its use as medicinal product.
- 23. A pharmaceutical composition characterized in that it comprises, in a pharmaceutically acceptable medium, a compound as claimed in any one of claims 1 to 21.

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- 10 24. A medicinal product characterized in that it contains at least one compound as claimed in any one of claims 1 to 21, in the prevention of premature births.
- 25. The medicinal product as claimed in claim 24, for its therapeutic use in the prevention of premature births.
  - 26. The medicinal product as claimed in claim 24, for its therapeutic use in the control of uterine mobility.
- 27. The medicinal product as claimed in claim 24, for its therapeutic use in increasing cervical dilatation during labor.
- 25 28. The medicinal product as claimed in claim 24, for its therapeutic use in the treatment of uterine contraction anomalies.
- 29. The medicinal product as claimed in claim 24, for 30 its therapeutic use in the treatment of dysmenorrhea.
  - 30. The medicinal product as claimed in claim 24, for its therapeutic use in hormone replacement therapy in

menopausal women.

- 31. The medicinal product as claimed in claim 24, for its therapeutic use in the induction of an endometrial cycle in the context of assisted reproduction.
- 32. The medicinal product as claimed in claim 24, for its therapeutic use in the prevention or treatment of arterial hypertension.

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33. The use of a compound characterized in that it is capable of binding to hormone receptors and in that it comprises a nitrogen monoxide-donor nitric ester group, for preparing a medicinal product intended for the prevention of premature births.